



1074,561

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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Abdurrahman Sezginer et al.

Application No.: 10/074,561

Filed: February 12, 2002

For: OVERLAY ALIGNMENT METROLOGY
USING DIFFRACTION GRATINGS

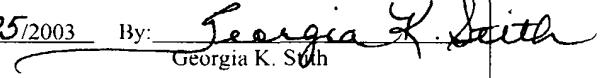
Group Art Unit: 2881

Examiner: Unknown

**INFORMATION DISCLOSURE
STATEMENT**121 Spear Street, Suite 290
San Francisco, CA 94105
(415) 512-1312**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 25, 2003.

STALLMAN & POLLOCK LLP

Dated: 07/25/2003 By: 

Georgia K. Smith

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant(s) submit(s) herewith patents, publications or other information [attached hereeto and listed on the attached Form PTO-1449 (modified)] of which they are aware, which they believe(s) may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

This Information Disclosure Statement:

- (a) accompanies the new patent application submitted herewith. 37 CFR § 1.97(a).
- (b) is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR § 1.491.
- (c) as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits, or before a first office action after filing a Request for Continued Examination under § 1.114.
- (d) is filed after the first office action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a

Atty Docket No.: TWI-30400

notice of allowance, whichever occurs first, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(c), as checked below.

(e) is filed after the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and the Issue Fee has not been paid, and is accompanied by the fee (\$130) set forth in 37 CFR § 1.17(i)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement.

[If either of boxes (d) or (e) is checked above, the following "certification" under 37 CFR § 1.97(e) may need to be completed.] The undersigned certifies that:

(f) Each item of information contained in the information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

(g) No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this information disclosure statement.

A list of the patent(s) or publication(s) is set forth on the attached Form PTO-1449 (Modified).

A copy of the items on PTO-1449 (Modified) is supplied herewith:

(h) each (i) none (j) only those listed below:

Those patent(s) or publication(s) which are marked with an asterisk (*) in the attached form PTO-1449 (Modified) are not supplied because they were previously cited by or submitted to the Office in a prior application no. _____, filed _____ and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

A concise explanation of relevance of the items listed on form PTO-1449 (Modified) is:

(k) not given
(l) given for each listed item

- (m) given for only non-English language listed item(s) [Required]
- (n) is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references [copy attached].

The Examiner is reminded that a "concise explanation of the relevance" of the submitted items "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention," MPEP § 609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and MPEP § 609 and the Examiner is respectfully requested to consider the listed references.

- The Commissioner is hereby authorized to charge our Deposit Account No. 50-1703, under Order No. TWI-30400, for any fees required in connection with the filing of this Information Disclosure Statement. **A duplicate copy of this Notice is enclosed for this purpose.** In particular, in the event that an Office Action has crossed in the mail with this Information Disclosure Statement, the Commissioner is authorized to charge the above-named deposit account for any fees required pursuant to CFR §§ 1.17(p) or 1.17(i)(1).

Respectfully submitted,

STALLMAN & POLLOCK LLP

Dated: July 26, 2003

By: 

Michael A. Stallman
Reg. No. 29,444

Attorneys for Applicant(s)

Atty Docket No.: TWI-30400



INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) TWI-30400		Application Number 10/074,561	
		Applicant(s) Abdurrahman Sezginer et al.			
		Filing Date February 12, 2002		Group Art Unit 2881	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	4,200,395	04/29/1980	Smith et al.	356	356	05/03/1977
	AB	4,332,473	06/01/1982	Ono	356	356	01/22/1980
	AC	5,867,276	02/02/1999	McNeil et al.	356	445	03/07/1997
	AD	5,963,329	10/05/1999	Conrad et al.	356	372	10/31/1997
	AE	6,100,985	08/08/2000	Scheiner et al.	356	381	03/12/1999

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AF	0 281 030	02/26/1988	EPO	G03B	41/00		
AG	WO 99/45340	09/10/1999	PCT	G01B	11/02		
AH	EP 0 965 889 A2	12/22/1999	EPO	G03F	9/00		

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

AI	T.K. Gaylord et al., "Analysis and Applications of Optical Diffraction by Gratings," <i>PROC. IEEE</i> , Vol. 73, No. 5, 1985, pp. 894-937.
AJ	M.G. Moharam et al., "Stable implementation of the rigorous coupled-wave analysis for surface-relief gratings: enhanced transmittance matrix approach," <i>J. Opt. Soc. Am. A</i> , Vol. 12, No. 5, May 1995, pp. 1077-1086.
AK	M.G. Moharam et al., "Rigorous coupled-wave analysis of planar-grating diffraction," <i>J. Opt. Soc. Am.</i> , Vol. 71, No. 7, July 1981, pp. 811-818.
AL	C.J. Raymond et al., "Scatterometry for CD measurements of etched structures," <i>Proceedings of the SPIE, SPIE, Bellingham, VA (U.S.A.)</i> , Vol. 2725, 1996, pp. 720-728.
AM	M.R. Murnane et al., "Developed photoresist metrology using scatterometry," <i>Proceedings of the SPIE, SPIE, Bellingham, VA (U.S.A.)</i> , Vol. 2196, 1994, pp. 47-59.
AN	C.J. Raymond et al., "Metrology of subwavelength photoresist gratings using optical scatterometry," <i>Journal of Vacuum Science & Technology B</i> , Vol. 13, No. 4, 1 July 1995, pp. 1484-1495.

Examiner	Date Considered
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	